Docker

Introduction

```
docker build
docker build [options] .
  -t "app/container_name" # name
  --build-arg APP_HOME=$APP_HOME # Set build-time variables
```

Create an image from a Dockerfile.

```
docker run [options] IMAGE
    # see `docker create` for options
```

Example

```
$ docker run -it debian:buster /bin/bash
```

Run a command in an **image**. #Manage containers

```
docker create
```

Example

```
$ docker create --name app_redis_1 \
   --expose 6379 \
   redis:3.0.2
```

Create a container from an image.

docker exec

```
docker exec [options] CONTAINER COMMAND
-d, --detach # run in background
-i, --interactive # stdin
-t, --tty # interactive
```

Example

```
$ docker exec app_web_1 tail logs/development.log
$ docker exec -t -i app_web_1 rails c
```

Run commands in a container.

docker start

```
docker start [options] CONTAINER
-a, --attach  # attach stdout/err
-i, --interactive  # attach stdin
```

docker stop [options] CONTAINER

Start/stop a container.

docker ps

```
$ docker ps
$ docker ps -a
$ docker kill $ID
```

Manage container s using ps/kill.

docker logs

```
$ docker logs $ID
$ docker logs $ID 2>&1 | less
$ docker logs -f $ID # Follow log output
```

See what's being logged in an container. #Images

docker images

```
$ docker images
```

```
REPOSITORY TAG ID
ubuntu 12.10 b750fe78269d
me/myapp latest 7b2431a8d968
```

```
$ docker images -a # also show intermediate
```

```
Manages image s.
```

docker rmi

docker rmi b750fe78269d

Deletes image s. #Clean up Clean all

docker system prune

Cleans up dangling images, containers, volumes, and networks (ie, not associated with a container)

```
docker system prune -a
```

Additionally remove any stopped containers and all unused images (not just dangling images) Containers

```
# Stop all running containers
docker stop $(docker ps -a -q)
# Delete stopped containers
docker container prune
```

Images

```
docker image prune [-a]
```

Delete all the images Volumes

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docker volume prune